

## PATENT COOPERATIVE TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents  
 United States Patent and Trademark  
 Office  
 Box PCT  
 Washington, D.C.20231  
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 25 July 2000 (25.07.00)	
International application No. PCT/US99/28997	Applicant's or agent's file reference CM1976/JB
International filing date (day/month/year) 07 December 1999 (07.12.99)	Priority date (day/month/year) 14 December 1998 (14.12.98)
Applicant VAN GEERT, Peter, Maurits, Maria et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

02 June 2000 (02.06.00)

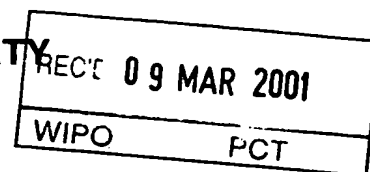
☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

/ made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Antonia Muller
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

# PATENT COOPERATION TREATY

# PCT



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>CM1976/JB</b>		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) <b>FOR FURTHER ACTION</b>	
International application No. <b>PCT/US99/28997</b>	International filing date (day/month/year) <b>07/12/1999</b>	Priority date (day/month/year) <b>14/12/1998</b>	
International Patent Classification (IPC) or national classification and IPC <b>B29C59/02</b>			
Applicant <b>THE PROCTER &amp; GAMBLE COMPANY et al.</b>			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 6 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  <b>02/06/2000</b>	Date of completion of this report  <b>07.03.2001</b>
Name and mailing address of the international preliminary examining authority:   <b>European Patent Office</b> <b>D-80298 Munich</b> <b>Tel. +49 89 2399 - 0 Tx: 523656 epmu d</b> <b>Fax: +49 89 2399 - 4465</b>	Authorized officer  <b>Schweissguth, M</b>  <b>Telephone No. +49 89 2399 2069</b> 

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/28997

## I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

**Description, pages:**

1-5 as originally filed

**Claims, No.:**

1-10 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/28997

*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*

6. Additional observations, if necessary:

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Yes:	Claims	1-10
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-10
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-10
	No:	Claims	

2. Citations and explanations  
**see separate sheet**

## VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:  
**see separate sheet**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

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International application No. PCT/US99/28997

It is referred to the following prior art documents:

D1: US 5,319,475,

D2: WO 93/16888,

D3: WO 97/34170,

D4: US 5,267,753.

**To point VII:**

Claim 1 refers to a "water solvent based primer". With respect to the present description no explicit teaching is present as how to understand this feature. However, "acrylic compounds" concern a huge variety of different compounds. Those polymers exist with different terminal groups resulting in different solvation properties. Accordingly, it appears that the feature "water solvent based primer" is not related to acrylic compounds in general, but only to certain acrylic polymers. Those polymers have not been disclosed in the present application. In other words, only a part of acrylic compounds achieves the aim of the present application, whereas another part does not solve the technical problem. Therefore, those skilled in the art must undertake undue investigations in order to find out the embodiment, which, in accordance to the teaching of claim 1 solves the technical problem.

Accordingly, the invention as described in present claim 1 is not disclosed in a manner sufficiently clear and complete to be carried out by a person skilled in the art.

**Art. 33(2) PCT:**

Prior art documents cited in the Search Report deal with holographic structures. In contrast, no explicit teaching of a water soluble (water solvent based) primer can be found in this prior art. Accordingly, the subject-matter of claim 1 appears to be novel.

Consequently, the package according to claim 9 appears also to be novel.

**Art. 33(3) PCT:**

The present holographic structure consists of four different layers in a discrete order (see claim 1). However the order itself is known in the prior art (see for example D1, Fig. 1).

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

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International application No. PCT/US99/28997

Direct printing onto the metallic layer of the holographic structure leads to dissolution of the embossed layer by penetration of the ink solvents through the metallic layer. The present invention seeks to provide a holographic structure which does not lead to dissolution of the embossed lacquer.

This object is accomplished according to present claim 1, where in the printing ink layer and the metallic layer are separated by a water solvent based primer. Within the teaching of the present application, the term water solvent based has been interpreted as water soluble polymer, which most probably excludes that the polymer is also soluble in pure organic solvents.

Accordingly, the holographic structure of claim 1 appears also to show inventive step over the prior art cited in the Search Report.

The package of claim 9 also appears to meet requirements of Art. 33(3) PCT.

With respect to the present Search Report citing four "X-documents" we wish to point out the following:

Document D2 showing the order of layers as disclosed in present claim 1. On page 14 it is referred to several layers. No explicit teaching as to provide a water soluble based primer/coating onto the metallic layer is present.

Documents D3 and D4 refer to the problem of holograms which are incompatible with the application of ink. It is proposed the application of a primer as "a thin coating over the entire hologram" (see document D3, p. 7, second paragraph). Alternatively, it is proposed a corona discharge treating of such surface in order to render it ink-compatible. The present problem is therefore well known in the prior art. Additionally, a treatment has been proposed which may render a surface to some extent more "water soluble" (corona discharge). However, no explicit teaching is present as to directly apply such a layer having a water solvent based primer.

Prior art document D4, which application originates from the same inventor as D3, concerns the same aspects as document D3 (see col. 3, third paragraph).

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

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International application No. PCT/US99/28997

**Dependent claims:**

Accordingly, the dependent claims 2-8, 10 also meet requirements of Art. 33(2) and (3) PCT.

**FOR THE PURPOSES OF INFORMATION ONLY**

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
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EE	Estonia	LR	Liberia	SG	Singapore		



## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>CM1976/JB</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/US 99/ 28997</b>	International filing date (day/month/year) <b>07/12/1999</b>	(Earliest) Priority Date (day/month/year) <b>14/12/1998</b>
Applicant <b>THE PROCTER &amp; GAMBLE COMPANY et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/28997

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B29C59/02 B42D15/10 G03H1/02 B65D33/00 B44F1/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B29C B42D G03H B65D B44F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<div> <div>✓</div> <div> US 5 319 475 A (KAY RALPH ET AL)  7 June 1994 (1994-06-07)  column 2, line 66 -column 3, line 8  column 4, line 6 - line 63  column 5, line 37 -column 6, line 8  column 7, line 50 -column 8, line 49  column 11, line 17 -column 12, line 19 </div> </div>	1-6,8-10
X	<div> <div>✓</div> <div> WO 93 16888 A (DE LA RUE HOLOGRAPHICS LTD)  2 September 1993 (1993-09-02)  page 3, line 21 - line 33  page 7, line 13 -page 8, line 1  page 14, line 1 -page 15, line 4 </div> </div>	1-6,8
	-/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"Z" document member of the same patent family

Date of the actual completion of the international search

24 March 2000

Date of mailing of the international search report

31/03/2000

Name and mailing address of the ISA

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Lindner, T

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/28997

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	✓ W0 97 34170 A (CHOCK ERNEST) 18 September 1997 (1997-09-18) page 1, line 23 - line 29 page 3, line 24 - line 31 page 6, line 9 - line 29	1-6
X	✓ US 5 267 753 A (CHOCK ERNEST) 7 December 1993 (1993-12-07) column 2, line 65 -column 3, line 38	1
A	✓ US 4 999 075 A (COBURN JR JOSEPH W) 12 March 1991 (1991-03-12) column 2, line 14 - line 29 column 4, line 58 -column 5, line 19	1-8

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/28997

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5319475	A	07-06-1994	AT 144338 T	15-11-1996
			DE 69122755 D	21-11-1996
			DE 69122755 T	06-03-1997
			DK 530267 T	24-03-1997
			EP 0530267 A	10-03-1993
			ES 2096649 T	16-03-1997
			WO 9118377 A	28-11-1991
			GB 2260514 A,B	21-04-1993
			GR 3021854 T	31-03-1997
WO 9316888	A	02-09-1993	CA 2128789 A	02-09-1993
			DE 69315985 D	05-02-1998
			DE 69315985 T	16-04-1998
			EP 0626909 A	07-12-1994
			GB 2278577 A,B	07-12-1994
			JP 7503674 T	20-04-1995
WO 9734170	A	18-09-1997	AU 2174897 A	01-10-1997
			CN 1193299 A	16-09-1998
US 5267753	A	07-12-1993	AU 3932793 A	21-10-1993
			WO 9318924 A	30-09-1993
US 4999075	A	12-03-1991	JP 3027983 A	06-02-1991